

MATH 520, COMPLEX ANALYSIS

Section 39734, Spring 2022

Instructor:	Igor Kukavica	Time:	MWF 2:00–2:50am
Email:	kukavica@usc.edu	Place:	KAP 134

Office Hours: Mondays 10:30–12:00pm and Wednesdays 3:00–4:30pm

Class Website: <http://ikukavica.dreamhosters.com/520>

Textbook: Last V. Alhfors: Complex Analysis, Third Edition

Other good books in the subject:

John B. Conway: Functions of One Complex Variable, Second Edition

TA: Sanat Mulay, e-mail: smulay@usc.edu; office Hours: TBA

Objectives and a Tentative Course Outline: The list of topics (this is a rough outline - minor variations are possible): Theory of analytic functions: power series and integral representations, calculus of residues, harmonic functions, normal families, approximation theorems, conformal mapping, analytical continuation, factorization theorem, Riemann mapping theorem

Prerequisites: Math 425b

Grading Policy: Homework 50%, Midterm 20%, Final Exam 30%

Dates: Midterm Exam: Wednesday, Feb 16, 2022, in class; Final Exam: Monday, May 9, 2022, 2–4pm; room TBA

Class Policy: Regular attendance is essential.

- During every lecture, dedicate to it your full attention. Do not double-task! We will start and finish on time.
- Students are responsible for all the material covered and all announcements made in class. You will also be expected to be familiar with all the material in the corresponding sections of the textbook
- I strongly recommend taking notes
- You must register for the class to attend, except during the first week of classes

Statement for Students with Disabilities: Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me as early in the semester as possible. DSP is located in STU 301. The phone number for DSP is (213) 740-0776.

Statement on Academic Integrity: USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. All students are expected to understand and abide by these principles. Scampus, the Student Guidebook

<https://policy.usc.edu/files/2018/07/SCampus-2018-19.pdf>, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A. Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The Review process can be found in the same handbook.

Disclaimer: It may be necessary to make some adjustments in the syllabus during the semester.